

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	1	("4350465").PN.	US-PGPUB; USPAT	OR	OFF	2007/07/31 09:12
S2	15	("1938399"   "2226491"   "2266555"   "3343580").PN. OR ("4350465").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/10/25 10:55
S3	52	("0367196"   "0796671"   "1368604"   "1592438"   "1875930"   "1911384"   "1926917"   "1933871"   "1938399"   "2112494"   "2226491"   "2266555"   "2509158"   "2619416"   "2675844"   "2707012"   "3343580"   "4034788"   "4350465").PN. OR ("1938399"   "2226491"   "2266555"   "3343580"   "4350465"   "4741654").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/10/25 10:57
S4	133	("0367196"   "0796671"   "1297845"   "1368604"   "1592438"   "1875930"   "1911384"   "1926917"   "1933871"   "1938399"   "2112494"   "2226491"   "2266555"   "2297957"   "2509158"   "2619416"   "2675844"   "2707012"   "2783810"   "3190334"   "3194292"   "3241589"   "3275055"   "3332464"   "3343580"   "3352344"   "3389734"   "3438416"   "3540509"   "4034788"   "4220188"   "4223711"   "4281699"   "4289181"   "4350465"   "4380414"   "4490082"   "4498825"   "4516893"   "4518294"   "4543023"   "4657459").PN. OR ("1368604"   "1592438"   "1911384"   "1926917"   "1933871"   "1938399"   "2112494"   "2226491"   "2266555"   "2509158"   "2675844"   "2707012"   "3343580"   "367196"   "4034788"   "4350465"   "4741654"   "4812095").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/10/25 11:01
S5	8	("3352344").URPN.	USPAT	OR	OFF	2005/10/25 11:06
S6	5	("3190334").URPN.	USPAT	OR	OFF	2005/10/25 11:07
S7	5	("2297957").URPN.	USPAT	OR	OFF	2005/10/25 11:09
S8	25	("0082473"   "0530881"   "0658719"   "0849376"   "0857223"   "1058771"   "1269059"   "1693559"   "2124249"   "3144803"   "3352344").PN. OR ("3804140").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/10/25 11:09

## EAST Search History

S9	2	("2124249").URPN.	USPAT	OR	OFF	2005/10/25 11:11
S10	2	(("4941787") or ("3971086")).PN.	US-PGPUB; USPAT	OR	OFF	2005/10/25 11:11
S11	11	("2672069"   "3009176"   "3037221"   "3777796"   "3888289").PN. OR ("3971086").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/10/25 11:11
S12	15	("0259665"   "1083471"   "3241423"   "3241589"   "3434520").PN. OR ("4941787").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/10/25 11:12
S13	10	("3037221").URPN.	USPAT	OR	OFF	2005/10/25 11:13
S14	24	("1945005"   "2192322"   "2303224"   "3037221"   "3163196"   "3628584"   "3856066"   "4179976").PN. OR ("4292007").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/10/25 11:13
S15	10	("2303224").URPN.	USPAT	OR	OFF	2005/10/25 14:34
S16	3	("2192322").URPN.	USPAT	OR	OFF	2005/10/25 14:34
S17	8	("3163196").URPN.	USPAT	OR	OFF	2005/10/25 14:34
S18	4	((("4193434") or ("5797175") or ("2226491") or ("1875930"))).PN.	US-PGPUB; USPAT	OR	OFF	2005/10/25 14:50
S19	31	("1579875"   "2177191"   "3060562"   "3079970"   "3124031"   "3125146"   "3133579"   "3253631"   "3736969"   "4432681"   "4637766"   "4779326"   "5335411"   "5513933"   "5531552").PN. OR ("5797175").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/10/25 14:50
S20	37	("1320259"   "1717035"   "2159393"   "2275315"   "2779376"   "2817380"   "3016941"   "3054213"   "3315720"   "3777796"   "4102239").PN. OR ("4193434").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/10/25 14:52
S21	10	("3016941").URPN.	USPAT	OR	OFF	2005/10/25 15:03
S22	20	("1961470"   "2851079"   "3016941"   "3087371"   "3331272"   "3425473").PN. OR ("3659491").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/10/25 15:05
S23	10	("1320259").URPN.	USPAT	OR	OFF	2005/10/25 15:08
S24	7	("2226491").URPN.	USPAT	OR	OFF	2005/10/25 15:09
S25	15	("1938399"   "2226491"   "2266555"   "3343580").PN. OR ("4350465").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/10/25 15:10
S26	8	("1875930").URPN.	USPAT	OR	OFF	2005/10/25 15:11
S27	10	("2303224").URPN.	USPAT	OR	OFF	2005/10/25 15:35

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S28	36	(411/186).CCLS.	US-PGPUB; USPAT	OR	OFF	2005/10/25 15:35
S29	4	("367196").URPN.	USPAT	OR	OFF	2005/10/25 15:49
S30	257	(411/544).CCLS.	US-PGPUB; USPAT	OR	OFF	2005/10/25 15:50
S31	8	("1875930").URPN.	USPAT	OR	OFF	2005/10/26 09:07
S32	114	(411/165).CCLS.	US-PGPUB; USPAT	OR	OFF	2005/10/26 09:07
S33	5	("2391308").URPN.	USPAT	OR	OFF	2005/10/26 09:09
S34	13	("2270813"   "2371463"   "2391308"   "3102571"   "3135308"   "3837212").PN. OR ("3906567"). URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/10/26 09:09
S35	32679	("267").CLAS.	US-PGPUB; USPAT	OR	OFF	2007/07/31 09:12
S36	12555	S35 and spring	US-PGPUB; USPAT	OR	OFF	2007/07/31 09:12
S37	5	S36 and "lower hardness"	US-PGPUB; USPAT	OR	OFF	2007/07/31 09:17
S38	0	S36 and (spring near "lower hardness")	US-PGPUB; USPAT	OR	OFF	2007/07/31 09:18
S39	0	S35 and (spring near "lower hardness")	US-PGPUB; USPAT	OR	OFF	2007/07/31 09:18
S40	38731	("411").CLAS.	US-PGPUB; USPAT	OR	OFF	2007/07/31 09:18
S41	0	S40 and (spring near "lower hardness")	US-PGPUB; USPAT	OR	OFF	2007/07/31 09:18
S42	0	S40 and (spring near lower near hardness)	US-PGPUB; USPAT	OR	OFF	2007/07/31 09:18
S43	1	S35 and (spring near lower near hardness)	US-PGPUB; USPAT	OR	OFF	2007/07/31 09:19
S44	34	S35 and (spring near hardness)	US-PGPUB; USPAT	OR	OFF	2007/07/31 09:26
S45	16	S40 and (spring near hardness)	US-PGPUB; USPAT	OR	OFF	2007/07/31 09:26
S46	26	("1592525"   "2297957"   "2675844"   "3170736"   "3174173"   "3259383"   "3269696"   "3483888"   "3504902"   "3992974"   "4135283"   "4262265"   "4383226"   "4715821").PN. OR ("5013199"). URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/07/31 09:43
S47	1	S46 and hardness	US-PGPUB; USPAT; USOCR	OR	OFF	2007/07/31 09:43

## EAST Search History

S48	19	("1460749"   "2058452"   "2781687"   "3038456"   "3469490").PN. OR ("3992974").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/07/31 09:45
S49	0	S38 and hardness	US-PGPUB; USPAT; USOCR	OR	OFF	2007/07/31 09:45
S50	0	S38 and hard	US-PGPUB; USPAT; USOCR	OR	OFF	2007/07/31 09:45